

Title (en)

Grinding tool with integrated micromagnetic sensors

Title (de)

Schleifwerkzeug mit integrierten mikromagnetischen Sensoren

Title (fr)

Outil de meulage à capteurs micromagnétiques intégrés

Publication

EP 1604782 B1 20120118 (DE)

Application

EP 05011489 A 20050527

Priority

DE 102004027846 A 20040608

Abstract (en)

[origin: EP1604782A1] A grinding tool, especially a grinding wheel, has integral micro magnetic sensors to monitor the grinding process. The grinding layer (3) is applied to a base support (2) and the sensors, comprising coils, are incorporated onto or into the grinding layer with connections to a signal processing unit (7) inside the support structure. The processed signals are transmitted to an external processing unit by wireless, inductive links, sliding contacts etc. Several coils can be incorporated into the grinding layer, e.g. into segments (4) comprising the grinding layer.

IPC 8 full level

B24B 49/14 (2006.01); **B24D 5/00** (2006.01); **B24D 99/00** (2010.01)

CPC (source: EP)

B24B 49/14 (2013.01); **B24D 5/00** (2013.01)

Cited by

IT201900000777A1; EP3915724A1; US11969851B2; US11919119B2

Designated contracting state (EPC)

DE FI GB IT

DOCDB simple family (publication)

EP 1604782 A1 20051214; EP 1604782 B1 20120118; DE 102004027846 A1 20060105; DE 102004027846 B4 20070606

DOCDB simple family (application)

EP 05011489 A 20050527; DE 102004027846 A 20040608